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Applicant: Cantor *et al.*

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For: SOLID PHASE SEQUENCING OF
BIOPOLYMERS

Art Unit: 1655

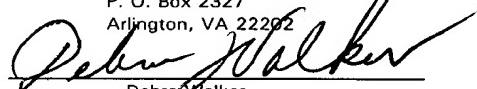
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MARKED UP CLAIMS IN ACCORDANCE WITH 37 C.F.R. § 1.121

Please amend claims 67, 71 and 125 as follows:

67. (Amended) The method of claim 64, wherein each probe is attached to the solid support by a bond selected from the group consisting of a covalent bond, an electrostatic bond, a hydrogen bond, a cleavable bond, a photocleavable bond, a disulfide bond, a peptide bond, a diester bond, [and] a selectively releasable bond[, or] and [a combination] combinations thereof.

71. (Amended) The method of claim 67, wherein the bond is a selectively releasable bond [is] and comprises 4, 4'-dimethoxytrityl or a derivative thereof.

125. (Twice Amended) [An array of nucleic acid probes, comprising a plurality of probes] The array of claim 124, wherein:

[each probe comprises a single-stranded portion comprising a variable sequence;

the array is attached to a solid support comprising a matrix that facilitates the volatilization of nucleic acids for mass spectrometry;]

the array comprises a nucleic acid probe having at least one mass-modifying functionality.

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